

**Notice of Allowability**

Application No.

09/580,932

Examiner

Jason M Perilla

Applicant(s)

CHENES, PIERRE H.

Art Unit

2634

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 26 July 2004.
2. ☒ The allowed claim(s) is/are 1, 3-10, 12-20, 22-25, and 27-32 renumbered respectively as claims 1-28.
3. ☒ The drawings filed on 25 May 2000 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                  |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>20041209</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                         |
|   | 9. <input type="checkbox"/> Other _____  |

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Rajiv Patel on December 9, 2004.

The application has been amended as follows:

The following version of claim 1 replaces the version of claim 1 in the application in its entirety.

1. A wireless communications system comprising:

a transmitter circuit for transmitting information and configured to repeatedly generate a same random identifier code having randomness that is derived from manufacturing tolerances associated with components included in the transmitter circuit, wherein the random identifier code is included in the transmitted information, the generation of the random identifier code being configured to repeatedly obtain a same result, wherein the transmitter circuit includes a microcontroller unit having a first input/output (I/O) port, wherein in response to detecting an event responsive to the manufacturing tolerances being detected at the first I/O

port, a process running in the microcontroller unit generates the random identifier code.

Claim 2 is CANCELED.

Regarding claim 3, in line 1, "The system of claim 2" is replaced by –The system of claim 1--, and, in line 2, "a ROM" is replaced by –a read only memory (ROM)--.

Regarding claim 4, in line 1, "The system of claim 2" is replaced by –The system of claim 1--, and, in line 2, "a RAM" is replaced by –a random access memory (RAM)--.

Regarding claim 5, in line 1, "The system of claim 2" is replaced by –The system of claim 1--, and, in line 2, "code generating" is stricken.

Regarding claim 7, in line 2, "a ROM" is replaced by –a read only memory (ROM)--.

The following version of claim 10 replaces the version of claim 10 in the instant application in its entirety.

10. A wireless communications system comprising:

a transceiver circuit for transmitting information, and for repeatedly generating a same random identifier code having randomness that is derived from manufacturing tolerances associated with components included in the transceiver circuit, wherein the random identifier code is included in the

transmitted information, the generation of the random identifier code being configured to repeatedly obtain a same result,  
wherein the transceiver circuit includes a microcontroller unit having a first input/output (I/O) port, wherein in response to detecting an event responsive to the manufacturing tolerances being detected at the first I/O port, a process running in the microcontroller unit generates the random identifier code.

Claim 11 is CANCELED.

Regarding claim 12, in line 1, "The system of claim 11" is replaced by –The system of claim 10--, and, in line 2, "a ROM" is replaced by –a read only memory (ROM)--.

Regarding claim 13, in line 1, "The system of claim 11" is replaced by –The system of claim 10--, and, in line 2, "a RAM" is replaced by –a random access memory (RAM)--.

Regarding claim 14, in line 1, "The system of claim 11" is replaced by –The system of claim 10--, and, in lines 2-3, "code generating" is stricken.

Regarding claim 16, in line 2, "a ROM" is replaced by –a read only memory (ROM)--.

The following version of claim 19 replaces the version of claim 19 in the instant application in its entirety.

19. A method for distinguishing transmissions of a wireless transmitter, the method comprising:

generating a random identifier code having randomness that is derived from

manufacturing tolerances associated with components included in the

wireless transmitter, the generation of the random identifier code being

configured to repeatedly obtain a same result ~~the same as a previously~~

~~generated code having randomness from tolerances associated with~~

~~components included in the wireless transmitter; and~~

embedding the random identifier code in the transmissions of the wireless transmitter,

wherein the wireless transmitter includes a microcontroller unit having an

input/output (I/O) port, and the generating step is in response to an event

responsive to the manufacturing tolerances being detected at the I/O port.

Claim 21 is CANCELED.

Regarding claim 22, in line 1, "The method of claim 21" is replaced by –The method of claim 19--, and, in line 2, "a ROM" is replaced by –a read only memory (ROM)--.

The following version of claim 24 replaces the previous version of claim 24 in the instant application in its entirety.

24. A method for distinguishing transmissions of a transceiver included in a wireless communications system, the method comprising:

generating a random identifier code having randomness that is derived from  
manufacturing tolerances associated with components included in the  
transceiver; and

embedding the random identifier code in the transmissions of the transceiver, the  
generation of the random identifier code being configured to repeatedly  
obtain a same result ~~the same as a previously generated code having~~  
~~randomness from tolerances associated with components included in the~~  
~~wireless communications system,~~

wherein the wireless transmitter includes a microcontroller unit having an  
input/output (I/O) port, and the generating step is in response to an event  
responsive to the manufacturing tolerances being detected at the I/O port.

Claim 26 is CANCELED.

Regarding claim 27, in line 1, "The method of claim 26" is replaced by –The  
method of claim 24--, and, in line 2, "a ROM" is replaced by –a read only memory  
(ROM)--.

The following version of claim 29 replaces the version of claim 29 in the instant  
application in its entirety.

29. A computer-readable medium having instructions stored thereon which, when executed by a processor included in a wireless communications system, when executed by a processor included in a wireless communications system, cause the processor to perform the steps of:

in response responsive to a code-generating an event responsive to  
manufacturing tolerances associated with components included in the  
communications system, receiving data produced by the wireless  
communications system, wherein the received data has randomness that  
is derived from the manufacturing tolerances associated with the  
components included in the wireless communications system;  
generating a random identifier code based on the received data; and  
storing the random identifier code in a storage area included in the wireless  
communications system, the generation of the random identifier code  
being configured to repeatedly obtain a same result ~~the same as a~~  
~~previously generated code having randomness from tolerances associated~~  
~~with components included in the wireless communications system.~~

Regarding claim 31, in line 3, "the code generating event" is replaced by --the event--.

Regarding claim 32, in line 3, "an I/O port coupled to an RC circuit" is replaced by --an input/output (I/O) port coupled to a resistive-capacitive (RC) circuit--.

Claims 33-52 are CANCELED.

**Claims 1, 3-10, 12-20, 22-25, and 27-32 are renumbered as claims 1-28, respectively, and the claim dependency is renumbered accordingly.**

***Allowable Subject Matter***

2. Claims 1; 3-10, 12-20, 22-25, and 27-32 renumbered respectively as claims 1-28 are allowed.

3. The following is an examiner's statement of reasons for allowance:

The claims are allowed because the prior art of record does not disclose or obviate the limitations of the claims including the repeated generation of a same random identifier code or the generation of the random identifier code in response to an event responsive to manufacturing tolerances included in the circuit. The newly found reference Bowers et al (US 5883582; hereafter "Bowers") does disclose the generation of a random identification code which contains randomness attributed in part to manufacturing tolerance contained within components of the circuit disclosed (col. 4, lines 1-20). However, the generation of the random identification code is not in response to an event responsive to the tolerances.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably



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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M Perilla whose telephone number is (571) 272-3055. The examiner can normally be reached on M-F 8-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Jason M. Perilla  
December 7, 2004

jmp

  
**CHIEH M. FAN**  
**PRIMARY EXAMINER**